The Formation Conditions of Violuric Acid and of the SOV/Violurates When Nitrite Acts Upon Barbituric Acid

307/156-58-2-35/48

acid concentrations below 0,01 mol/1 and at nitrite concentrations of 0,01 - 0,001 mol/1. It was found that the color intensity of the produced violurate depends on the active reaction of the solution. The color is, however, in the case of all pH-values due to the formation of the sodium violurate with a λ_{max} 520 m μ only. A color maximum is observed at pH 5,0 - 5,2. The color of the produced violurate vanishes gradually with the duration of interaction in the case of the optimum pH-value as well as in the case of lower values (5,0 - 4,0). In contrast to this, the color intensity rises in the case of higher pH-values (5,0 - 5,6) with the prolongation of the reaction duration. In the case of pH 4.0 - 5.0 the violurate is produced more quickly, this process reaching its maximum within the first 10 minutes (at 100°). The color vanishes later owing to the decomposition of the violurate. In contrast to this the violurate formation is apparently inhibited in the case of higher pH-values (5,0 - 6,0). It does not reach a maximum even after 1 hour (at 100°). The color intensity

Card 2/4

The Formation Conditions of Violuric Acid and of the SOV/156-58-2-35/48 Violurates When Nitrite Acts Upon Barbituric Acid

in the case of pH 4,0 - 5,0 is due to the varying degree of the colored salt (violurate). The formation of the violuric acid proceeds with great velocity at a pH < 5,0 - 5,2 and is abruptly inhibited when the optimum pH-value is surpassed. There are 3 figures and 1 reference.

ASSOCIATION: Kafedra organicheskoy khimii 2-go Moskovskogo gosudarstvennogo

meditsinskogo instituta im.N.I.Pirogova (Chair of Organic Chemistry of the Second Moscow State Institute of Medicine

imeni N.I.Pirogov)

SUBMITTED: October 28, 1957

Card 3/4

The Formation Conditions of Violuric Acid and of the Violurates When Nitrite Acts Upon Barbituric Acid

Card 4/4

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8

507/63-3-6-41/43 Erylov, V.P., Prozdev, F.S. AMPHONO: The Application of Barbituric and 2-Thiobarbituric Acids for TITLE: Wie Quantitatine Naturalmatics of Mitrit: (C prisonemii b rbiturovoj i 2-tic'arbiturovoj kielot dlya heliekostverroge o redulation ribrits) White tober hay a name at promy shlora set!, 1000, Vol IVI, Ur 6, PINEL HOAL: re ojem je (Umar) The color of 2-thioviolurate, which develops in a solution ALCTRACT: of ph=4.7 and a 2 - 6 times excess of 2-thioburbituric acid, may be used for the photocolorimetric determination of 304 with an error of 1 5%. The barbituric soid may be used for the determination of nitrite, because there is no linear dejendence between the observed color and the concentration.

AS COTATION: 2-y Moskovskiy gorudaratvennyy meditsinskiy institut imeni

There are 3 graphs and 6 references, 2 of which are Soviet,

H.I. Pirogova (Second Moscow State Medical Institute inemi

E.I. Pirogov)

3 Corman and 1 Indian.

SUBMITTED: May 21, 1950

Card 1/1

5.3610

77288 507/63-4-6-22/37

AUTHORS:

Drozdov, N. S., Krylov, V. P.

TITLE:

Brief Communication. Colorimetric Determination of

Barbituric and 2-Thiobarbituric Acids

PERIODICAL:

Khimicheskaya nauka i promyshlennost', 1959, Vol 4,

Nr 6, pp 798-799 (USSR)

ABSTRACT:

Nitrous acid with barbituric (I) and 2-thiobarbituric (II) acids forms colored salts of 5-isonitrosobarbituric and 5-isonitroso-2-thiobarbituric acids, respectively. The quantitative photometric determination of (I) and (II), based on the above reaction was made at pH 5.0-5.2 for Na and K violurates, and pH 4.7-4.9 for Na and K 2-thioviolurates. For stabilization of pH of the solution, an acetate or phosphato-citrate buffer mixture was used. For a rapid color development it is sufficient to heat the reaction mixture to 100° for 15 minutes and cool it to 20° with ice water. The error of the determination is not over +5%. The above

Card 1/2

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Brief Communication. Colorimetric Determination of Barbituric and 2-Thiobarbituric Acids

77288 SOV/63-4-6-22/37

determination can be made on 10^{-4} mole/liter concentration of (I) and (II). The presence of cations of alkali and alkali-earth metals does not interfere with the determination. Cu and Fe cations interfere with the accuracy of the determination. There is 1 figure; and 6 references, 2 Soviet, 3 U.S., 1 U.K. The U.S. and U.K. references are: Koppani, J. Am. Pharm. Assoc., 23, 1074 (1934); Mattson, Holt, J. Pharmacol., 59, 379 (1937); Christensen, J. Biol. Chem., 160, 425 (1945); Mangouri, Quart, J. Pharm., 20, 109 (1947).

ASSOCIATION:

Second Moscow State Medical Institute imeni N. I. Pirogov (2-y Moskovskiy gosudarstvennyy meditsinskiy institut imeni N. I. Pirogova)

SUBMITTED:

April 29, 1959

Card 2/2

DROZDOV, N.S.; KRYLOV, V.P.

Readtion of 2-thiobarbituric acid with sodium nitrite. Izv. vys.ucheb.zev.;khim. i khim.tekh. 3 no.3:476-479 '60. (MIRA 14:9)

1. 2-oy Moskovskiy gosudarstvennyy meditsinskiy institut imeni N.I. Pirogova, kafedra organicheskoy khimii. (Barbituric acid) (Sodium nitrite)

DROZDOV, N.S.; KRYLOV, V.P.

Photometric determination of barbituric and 2-thiobarbituric acids. Zhur.anal.khim. 15 no.2:248-249 Mr-Ap 160. (MIRA 13:7)

1. 2-y Moskovskiy gosudarstvennyy meditsinskiy institut im. H.I. Pirogove.

(Barbituric acid)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

DZROZDOV, N.S.; KRYLOV, V.P.

Synthesis, structure, and coloration of salts of violuric and thiovioluric acid. Dokl. AN SSSR 135 no.5:1135-1138 D '60.

(MIRA 13:12)

1. 2-y Moskovskiy gosudarstvennyy meditsinskiy institut im.N.I. Pirogova.

(Violuric acid)

CIA-RDP86-00513R000826830006-8" **APPROVED FOR RELEASE: 06/14/2000**

KRYLOV, V. P., Cand. Chem. Sci. (diss) "On Some Heactions of Barbituric Andd2-Thio-barbituric Acids and their 5-Iso-Nitro-Derivatives." Moscow, 1961, 15 pp (Moscow Chem-Engr. Instit.) 200 copies (KL Supp 12-61, 256).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

HRYDDY, V. D., DEDZDDY, H. S. (USSR)

"Interaction of 2-Thiobarbituric and Barbituric Acids with the Products of Biogenic Oxidation of Lipids."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961

DROZDOV, H.S.; KRYLOV, V.P. (Moscow)

Determination of the dissociation constants of weak acids. Zhur.fiz.khim. 35 no.11:2557-2560 N 161. (MIRA 14:12)

1. Kafedra organicheskoy i fizicheskoy khimii 2-go Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.

(Acids)

(Dissociation)

DROZDOV, N.S. [deceased]; KRYLOV, V.P.

Use of 2-thiobarbituric and barbituric acids for the photometric control of autoxidation processes. Zav.lab. 29 no.11:1308-1309 163. (MIRA 16:12)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut.

AREF'YEV, T.I., kand. ekon. nauk; BRASLAVETS, M.Ye., prof., doktor ekon. nauk; BROZGUL', M.M.; VLASOV, N.S., prof., doktor ekon. nauk; DUBROVA, P.F., doktor ekon. nauk; YESAULOV, P.A., kand, sel'khoz, nauk; ZAL'TSMAN, L.M., prof., doktor sel'khoz. nauk; KAL'M, P.A., dotsent, kandidat sel'skokhoz. nauk; KOSTSELETSKIY, N.A., kand. ekon. nauk; KRYLOY, V.S., kand. sel'khoż. nauk; LIEKIND, A.S., dots., kand. ekon. nauk; MAKAROV, N.P., prof., doktor ekon. nauk; OGLOBLIN, Ye.S., kand. sel'khoz. nauk; POLOVENKO, S.I., kand. ekon. nauk; POPOV, S.A., dots., kand. ekon.nauk; SAPIL'NIKOV, N.G., doktor ekon. nauk; TISHCHENKO, G.A., prof., kand. ekon. nauk; TYUTIN, V.A., prof., doktor ekon. nauk; YANYUSHKIN, M.F., kand. ekon. nauk; PYLAYEVA, A.P., red.; FREYDMAN, S.M., red.; SOKOLOVA, N.N., tekhn. red.

> [Organization of socialist agricultural enterprises] Organizatsiia sotsialisticheskikh sel'skokhoziaistvennykh predpriiatii; kurs lektsii. Moskva, Sel'khozizdat, 1963. 662 p. (MIRA 16:8)

1. Zaveduyushchiy otdelom ekonomiki Vsesoyuznogo nauchnoissledovatel'skogo instituta sakharnoy svekly (for Aref'yev). 2. Odesskiy sel'skokhozyaystvennyy institut (for Braslavets).

(Continued on next card)

AREF'YEV, T.I .-- (continued). Care

3. Moskovskaya seliskokhozyaystvennaya akademiya im. K.A.T1miryazeva (for Vinsov), to Zave byvushchiy otdelom ekonomiki i organizatsii Nauchno-issiedovatsi'skogo instituta sadovodstva im. I.V. Michurina (for Dubrova), 5. Moskovskiy Gosudarstvennyy universitet im. M.V. Lomonosova (for Zal'tsman, Polovenko). 6. Zaveduyushahiy kafedroy organizatsii sel'skokhozyaystvennogo proizvodstva Leningradskogo seliskokhozyaystvennogo instituta (for Kal'm). 7. Zaveduyushchiy otdelom ekonomiki Nauchno-issledovateliskogo instituta ovoshchnogo khozyaystva (for Kostseletskiy). 8. Vsesoyuznyy nauchnoissledovatel'skiy institut ptitsevodstva (for Krylov). 9. Moskovskiy ekonomiko-statisticheskiy institut (for Libkind). 10. Vsesoyuznyy sel'skokhozyaystvenniy institut zaochnogo obrazovaniya (for Makarov). 11. Zaveduyushchiy otdelom ekonomiki Krasnodarskogo nauchno-isaledovatel'akogo instituta sel'akogo khozyaystva (for Ogloblin). 12. Kafedra organizatsii sel'skokhozyaystvennogo proizvodstva Leningradskogo sel'skokhozyaystvennogo instituta (for Popov). 13. Zaveduyushchiy kafedroy Sovetskoy ekonomiki Vyshey partiynoy shkoly (for Sapil'nikov). 14. Voronezhskiy sel'skokhozyaystvennyy institut (for Tishchenko). 15. Leningradskiy sel'skokhozyaystvennyy institut (for Tyutin). 16. Direktor Severo-Kavkazskogo filiala Vsesoyuznogo nauchnoissledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for (Agriculture-Economic aspects)

KRYLOY, V.S.

Problem of repair of the aorta with a one-piece plastic insert [with summary in English]. Eksper.khir. 1 no.2:43-50 Mr-Ap'56 (NIRA 11:10)

1. Is fakul'tetskoy khirurgicheskoy kliniki (dir. deystvitel'nyy chlen

1. Is fakul'tetskoy khirurgicheskoy kliniki (dir. deystvitel'nyy chlen AMN SSSR prof. A.H. Bakulev) II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni I.V. Stalina i Sverdlovskogo instituta vosstanovitel'noy khirurgii, travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. F.R. Bogdanov).

(ACRYA, surgery,
exper. allplasty with serylic resins (Rus))
(ACRYLIC RESINS,
aortoplasty in animals (Rus))

KRYLOV, V. S., VENEDIKTOV, D. D., and PETROVSKIY, B. V., (Prof.) -- Moscow

"Restorative Surgery in Occlusion of Large Arteries."

Report submitted for the 27th Congress of Surgeons of the USSR, Moscow, 23-28 May 1960.

PETROVSKIY, B.V.; KRYLOV, V.S.; VENEDIKTOV, D.D.

Surgical treatment of arteriosclerotic occulsions of the large vessels. Khirurgiia 36 no. 5:10-17 My '60. (MIRA 14:1) (ARTERIOSCLEROSIS)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

KRYLOV, V. S., Doc Med Sci -- "Continuous roundebout shunt ing and prosthed in the surgery of blood vessels. (Experimental clinical observation)." Mos, 1961. (Min of Health USSR. Central Inst Advanced Name) (KL, 8-61, 257)

- 413 -

PETROVSKIY, B. V., prof.; MILONOV, O.B., kand.med.nauk; KRYLOV, V.S., kand.med.nauk

Plastic prostheses in the surgical treatment of aneurysm of the peripheral vessels. Khirurgiia 37 no.517-12 My 161.

(MIRA 14:5)

l. Iz gospital'noy khirurgicheskoy kliniki (zav. - deystvitel'nyy chlen AMN SSSR prof. B.V. Petrovskiy) I Moskovskogo ordena
Lenina meditsinskogo instituta imeni I.M. Sechenova.

(BLOOD VESSKIS-SURGERY) (ANEURYSMS)

PETROVSKIY, B.V., prof.; NATSVLISHVILI, G.A., kand.med.nauk; KRYLOV, V.S., kand.med.nauk (Moskva)

Significance of contrast methods in the diagnosis and treatment of sclerotic lesions of the aorta and great vessels. Klin.med. 39 no.2:29-35 F '61. (MIRA 14:3)

l. Iz gospital'noy khirurgicheskoy kliniki (zav. - deystvitel'nyy chlen AMN SSSR prof. B.V. Petrovskiy) I Moskovskogo ordena
Lenina meditsinskogo instituta imeni I.M. Sechenova (dir. chlenkorrespondent AMN SSSR prof. V.V. Kovanov).

(ARTERIOSCLEROSIS) (ANGIOGRAPHY)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

PETROVSKIY, B. V., professor; KRYLOV, V. S., starshiy nauchnyy sotrudnik; KROTOVSKIY, G. S. (Moskva, V-330, Universitetskiy pr., korpus 4, kv. 139)

Surgical treatment of "pulseless disease" (Takayasua's syndrome). Vest. Whir. no.4:28-35 '62. (MIRA 15:4)

1. Iz gospital'nov khirurgicheskov kliniki (zav. - prof. B. V. Petrovskiy) 1-go Moskovskogo ordena Uenina meditsinskogo instituta im. I. M. Sechenova.

(PULSE)

KRYLOV, V.S.; YARMULINSKIY, I.S. Device for the introduction of vascular protheses in surgical formation of a permanent collateral shunt from the femoral into the popliteal artery. Eksper. khir. i anest. 7 no.5:49.50 S.0 162.

一一一个 医原生物 医神经神经 医脑膜腔 医胸膜 有一种的 经证券 计

1. Iz gospital noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

PETROVSKIY, B.V., prof.; KRYLOV, V.S., doktor mad. nauk; 7ARETSKIY, V.V., kand. med. nauk; RABKIN, I.Ye., kand. med. nauk

Abdominal aortography. Vest. khir. 89 no.10:3-12 0 162.

(MIRA 17:10)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. B.V. Petrovs-kiy) l-go Moskovskogo ordena Lenina meditsinskogo instituta. 2. Deyst-vitel'nyy chlen AMN SSSR (for Petrovskiy). Adres avtorov: Moskva, G-48, Pirogovskaya d.2/6 l-y Moskovskiy meditsinskiy institut.

MEKHTIYEV, M.N.; ARABIDZE, G.G.; KRYLOV, V.S.

Methodology of studying the pathology of the renal arteries in arterial hypertension. Ter. arkh. 35 no.4:40-44 Ap¹⁶³ (MIRA 17:1)

1. Iz gospital'noy khirurgicheskoy kliniki (dir. deystvitel'nyy chlen AMI SSSR prof. B.V. Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova i Instituta terapii (dir. - deystvitel'nyy chlen AMN SSSR prof. A.L.Myasnikov) AMN SSSR.

MEKHTIYEV, M.M.; KRYLOV, V.S.; ARABIDZE, G.G.; BELICHENKO, I.A.

Diagnosis of stenosing lesions of the renal artery. Vest. khir. no.7: 22-24 J1 164. (MIRA 18:4)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. B.V.Petrovskiy) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova. Adres avtora; Moskva, B.Pirogovskaya ul., d.2/6, gospital'naya khirurgi-cheskaya klinika.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

MEKHTIYEV, M.M.; REVZIS, M.G.; KRYLOV, V.S.

Vasorenal hypertension induced by fibromuscular hyperplasia of the renal artery. Azerb. med. zhur. 41 no. 10:60-64. 0 '64 (MIRA 19:1)

l. Iz nauchno-issledovatel'skogo instituta klinicheskoy i eksperimental'noy khirurgii i gospital'noy khirurgicheskoy klinikii
(direktor - deys'vitel'nyy chlem AMI SSSR B.V. Petrovskiy)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni
Sechanova.

TO A STATE OF THE STATE OF THE

BELICHENKO, I.A.; KRYLOV, V.S.; KROTOVSKIY, G.S.; ABUGOV, A.M.

Angiography in lesions of the branches of the arch of the aorta. Vest. rent. 1 rad. 40 no.5:12-17 S-0 '65.

(MIRA 18:12) eksperimental ncy khirurgii Ministerstva zdravcokhraneniya RSFSR, Moskva.

KALASHNIKOV, Ya.I.; KRYLOV, V.S.; MAKOGON, L.A.; SAMOLWTOV, A.I.; NIKULITSKIY, I.V.

The introduction of an intensive poultry breeding system. Mias. ind. 6SSR 26 no.3:26-29 '55. (MLRA 8:9)

1. Zamestitel' ministra promyshlennosti myasnykh i molochnykh produktov RSFSR (for Kalashnikov). 2. Tekhnoruk Kuntsevskoy ptitsefabriki (for Krylov). 3. Tekhnoruk Glebovskoy ptitsefabriki (for Hakogon). 4. Tekhnoruk Tomilinskoy ptitsefabriki (for Samoletov). 5. Direktor Brattsevskoy ptitsefabriki (for Bikulitskiy)

(Poultry industry)

VASILIYEVA, G.M., redaktor; CHEBYSHEVA, Ye.A., tekhnicheskiy redaktor

[Production processed in poultry plants] Protessay proizvodstva na ptitsefabrikakh. Moskva, Pishchepromizdat, 1956. 161 p. (MIRA 10:4)

(Poultry plants)

CATEGORY e farm inimals.

Poultry.

ABS. JOUR. I RZhB101., No. 6, 1959, No. 25928

AUTHOR

SIM. TITLE

: Tret'yakov, N. P.: Krylov, V. S. : All-Union Scientific Research Institute of* : Now Achievemonts Pertaining to the Tempera-

ture Regimen in the Raising of Pullets on

Farms.

ORIG. PUB.

: Tr. Vses. n.-1. in-ta ptitsevodstva, 1958, 25,

144-156

ABSTRACT

: In the course of 4 years experiments were carried out pertaining to the raising of pullets in winter at low temperatures and applying darkening procedures periodically. It was proven that at 10-150 [C] pullets grow normally and develop well. Within the course of 4 months of raising, the pullets' live weight was 6.8 percent, the weight of their hearts 54.8 percent, their livers 46.4 percent, their lungs 22.8 percent, their gas metabolism 17.3-25.2 percent higher their gas metabolism 17.3-25.2 percent higher, their average egg produc-

Card:

1/3

*Poultry Farming.

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8

ABS . JOUR. : RZhB1ol., No. 1959, No.

AUTHOR INST. TIPLE

ORIG. PUB.

ABSTRACT

: tion was 17.3 percent, the weight of their eggs 1.4 g higher than in pullets raised at high temperatures. The combination of lowered temperatures and periodic sleep in darkened premises increased weight gains by 15.9 per-cent and egg production by 32.4 percent, acce-lerated maturity by 8 days. By raising pullets in winter in field henhouses at low temperatures, it was possible to increase the duration of their being kept in the field to 9-10

CARD:

2/3

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8

COUNTRY : USSR

CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.

AUTHOR : INST. : TITLE :

ORIG. PUB. :

ABSTRACT : months and to raise egg and meat production

by 25-30 percent. -- M. F. Demina

Card: 3/3

BABIY, L.T., kand. sel'khoz. nauk; KRYLOV, V.S., kand. sel'khoz. nauk; KRIKUN, A.A., Geroy Sotsialisticheskogo Truda, kand. sel'khoz. nauk; STOLLYAR, T.A., kand. sel'khoz. nauk; KARYUKINA, K.I., kand. sel'khoz. nauk; PLAUNOV, P.A., kand. ekon. nauk; IVANOVA, A., red.; SERGEYEVA, V., red.

[The economics and organization of poultry raising] Ekonomika i organizatsiia ptitsevodstva. Moskva, Izd-vo "Kolos," 1964. 357 p. (MIRA 18:2)

\$/020/60/135/006/026/037 B004/B056

26.1620

Levich, V. G., Corresponding Member AS USSR, Kir'yanov, V.A., AUTHORS:

and Krylov, V. S.

Effects of the Discrete Nature of the Charge and Properties TITLE:

of the Double Layer on the Metal-Charge Interface (Taking

Account of the Discrete Structure of the Charge of

Specifically Adsorbed Layers of Ions)

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 6,

pp. 1425 - 1428

TEXT: From various papers by other research workers the authors conclude that the model of an electric double layer with uniformly "smeared out" charge does not correspond to the experimental results. In the present paper, they give a report on a quantitative investigation of the effects of discrete charges of the electric double layer on the metal - solution interface. The following equations are written: for the potential jump in the layer of adsorbed anions at the point of the electrocapillary maximum: $\delta \psi = \psi_0 = -4\pi\sigma \gamma/D$ (5), and in the case of a charged interface as a result Card 1/3

87410

Effects of the Discrete Nature of the Charge S/020/60/135/006/026/037 and Properties of the Double Layer on the B004/B056 Metal-Charge Interface (Taking Account of the Discrete Structure of the Charge of Specifically Adsorbed Layers of Ions)

of the charge q of the metal: $\delta\psi = \psi_0 = \delta\psi_1 + \delta\psi_Q$; $\delta\psi_Q = -4\pi q(\beta+\gamma)/D$ (6). σ denotes the average charge in the adsorbed layer; D is the dielectric constant of the internal region; β is the minimum distance between metal and anion, and $\beta+\gamma$ is that between metal and cation. For the micropotential of the point charges the following relation is obtained: $\psi^A = \psi_{18} + \left[\gamma/(\beta+\gamma)\right] \left(\delta\psi_A + \delta\psi_Q\right)$ (10), where $\psi_{18} \simeq (e/D\gamma)\ln 2$. Provided the surface of the electrode is not too largely occupied, equation (10) agrees well with experimental data. For the dependence of the potential jump $\delta\psi_A$ on the concentration and activity a_+ of the anions,

 $\delta(\delta\psi_a)/\delta\ln a_+ = (RT/F\delta\psi_a) - \left[\delta\psi^A/\delta(\delta\psi_a)\right]^{-1}RT/F$ (12) is found. An estimate of the values of β and γ from the data on ionic radii, and a calculation from equation (12) gave good agreement with the experimental data on the mercury - solution interface. The authors thank A. N. Frumkin for a discussion. There are 13 references: 7 Soviet, 3 US, 3 British, and Card 2/3

87410

Effects of the Discrete Nature of the Charge 5/020/60/135/006/026/037 and Properties of the Double Layer on the Metal-Charge Interface (Taking Account of the Discrete Structure of the Charge of Specifically Adsorbed Layers of Ions)

1 German.

ASSOCIATION: Institut elektrokhimii Akademii nauk SSSR (Institute of Electrochemistry of the Academy of Sciences USSR)

North and the state of the same

SUBMITTED: September 26, 1960

Card 3/3

GORBANEV, A.I.; KESSLER, Yu.M.; KRYLOV, V.V.

Effect of the structure of strong electrolyte solutions on thermodynamic properties. Zhur.strukt.khim. 2 no.3:260-267 My-Je '61.

1. Institut elektrokhimii AN SSSR.
(Electrolyte solutions) (Chemistry, Physical and theoretical)

ERYLOV, V. S

2. 医环状腺 1970年786年18月1日 1870年18月1日 1870年18月1

34429

S/185/61/006/006/006/030 D299/D304

24.3950

AUTHORS:

Harber, R.I., and Kypylov, V.S.

TITLE:

Spectral distribution of optical density of plasti-

cally deformed rock-salt crystals

PERIODICAL:

Ukraying kyy fizychnyy zhurnal, v. 6, no. 6, 1961,

755 - 757

TEXT: The dependence of the intensity of light scattering on wavelength in plastically deformed crystals can be determined by optical-density measurements; thereby the spectrometer $\mathcal{C}\Phi$ -4 (SF-4) was used. The natural rock-salt crystals were annealed at 650 - 700°C and tempered. The optical-density distribution was measured on specimens with a small amount of impurities. Four specimens were measured simultaneously. One of the specimens (which had highest transmittance), was elected as a standard and not subjected to deformation, whereas the other 3 specimens were plastically deformed. Then the optical density was measured with respect to the standard crystal. The results of one of the measurement cycles are shown in a

Card 1/3

Spectral distribution of optical ...

S/185/61/006/006/006/030 D299/D304

figure, where the values of lgD + C (D being the optical density and C -- an arbitrary constant) are plotted on the ordinate, and $\lg \lambda$ (λ being the wavelength of the incident light) is plotted on the abscissa. The investigations were carried out for the spectral region 3800 - 6000 A. The graphs shown are typical for the investigated NaCl crystals. The slope of the straight line $\partial(\lg D)/\partial(\lg \lambda)$ is greater for the deformed crystals, and depends on the size of the scattering particles (inhomogeneities). The increase in the slope is proof of diminishing size of the mosaic blocks. In real crystals, although they were especially selected, and annealed and studied under the same conditions, the development of plastic deformation is not entirely similar; thus, in 2 of the investigated specimens, the slope changed at a stress value of 150 g/mm2 approximately, whereas in the third specimen -- at 350 g/mm2 only. Working formulas for a quantitative estimate of the size of the scatterers and their concentration, as a function of optical density, are not available as yet. It is emphasized that the change in the slope starts only at deformation stresses which correspond to the appearance of diffuse scattering (Tyndall's cone) inside the crystal. The

Card 2/3

Spectral distribution of optical ...

S/185/61/006/006/006/030 D299/D304

conducted measurements show that it is possible to study the submicrostructure of transparent solids in the early states of plastic deformation. There are 1 figure and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: S.P.F. Humphrys-Cwen, Proc. Phys. Soc., B68, no. 6, 325, 1955; R. Fürth, Phil. Mag., 40, 1227, 1949.

ASSOCIATION: Umans'kyy pedahohichnyy instytut (Uman Pedagogical Institute)

X

Card 3/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

八一年的"中华的主管部队民民民主义的军事,这个军事,是一个

LEVICH, V.G.; KRYLOV, V.S.

Theory of the double electric layer in concentrated solutions.

Dokl. AN SSSR 141 no.6:1403-1405 D '61. (MIRA 14:12)

1. Institut elektrokhimii Akademii nauk SSSR. 2. Chlen-korrespondent AN SSSR (for Levich).

(Electrolyte solutions)

Distribution of the potential and intensity of an electric field in the dense portion of a double electric layer. Dokl.AN SSSR 11.4 no.1:155-158 My 162. (MIRA 15:5) 1. Institut elektrokhimii AN SSSR. Predstavleno akademikom (Systems (Chemistry)) (Electric fields)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

LEVICH, V.G.; KRYLOV, V.S.

Adsorption isotherm in a discrete double electric layer model. Dokl. AN SSSR 142 no.1:123-126 Ja '62. (MIRA 14:12)

1. Institut elektrokhimii AN SSSR. 2. Chlen-korrespondent AN SSSR (for Levich).

(Adsorption)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

KTYLOV, V. S.

"Theory of the Electric Double Layer with a Discrete Structure in the Presence of Specifically Adsorbed Charged Particles."

Report presented at the 11th meeting CITCE, Intl. Comm. of Electrochemical Thermodynamics and Kinetics, Moscow, 19-25 Aug 63.

Institute of Electrochemistry, Academy of Sciences of USSR, Moscow

KRYLOV, V.S., LEVICH, V.G.

Theory of the double electrical layer in concentrated solutions. Part 1. Zhur.fiz.khim. 37 no.1:106-114 Ja '63. (MIRA 17:3)

1. Institut elektrokhimii AN SSSR.

KRYLOV, V.S.; LEVICH, V.G.

Theory of electrical double layer in concentrated solutions. Part 2. Zhur.fiz.khim. 37 no.10:2273-2277 0 '63. (MIRA 17:2)

DEVICE, V.G.; KIR'YANOV, V.A.; KHYLOV, V.S.

Properties of the double layer and the characteristic of the electrostatic adsorption of ion... Dokl. AN SSUP 155 no. 3:

(MIRA 17:5)

1. Chlen-korrospondent AN SECR (for levich).

DEVICH, V.G.; KRYLOV, V.S.; VORCTILIN, V.F.

Theory of unsteady diffusion from a moving drop. Dokl. AN COUR
161 no.3:648-651 Fr 165. (MIRA 18:4)

1. Institut elektrokhimii AN COSR. 2. Chlen-kerres; ondent AN SOSR

(for Levich).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8

LEVICH, V.G.; KRYLOV, V.S.; VOFOTILIN, V.P.

工作型等特別的關係 医生产工

Theory of extraction from a falling drop. Fokl. AN SSOR 160 no.6: (MICA 18:2)

1. Institut elektrokhimii AM SSSR. 2. Chlen-korrespondent AM SSSR (for Levich).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

KRYLOV, V.S.; LEVICH, V.G.

Effect of the discreteness of adsorbed charge of interphase surface tension. Dokl. AN SSSR 159 no.2:409-412 N '64. (MIRA 17:12)

1. Institut elektrokhimii AN SSSR. 2. Chlen-korrespondent AN SSSR (for Levich).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

VOROTILIN, V.P.; KRYLOV, V.S.; LEVICH, V.G. (Moskva)

ATTECHNICATION OF THE PROPERTY OF THE PROPERTY

Theory of the extraction of matter from a falling droplet. Prikl. mat. i mekh. 29 no.2:343-350 Mr-Ap 165. (MIRA 18:6)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8

PETROVSKIY, B.V.; KRYLOV, V.S.; MEKHTIYEV, M.M.

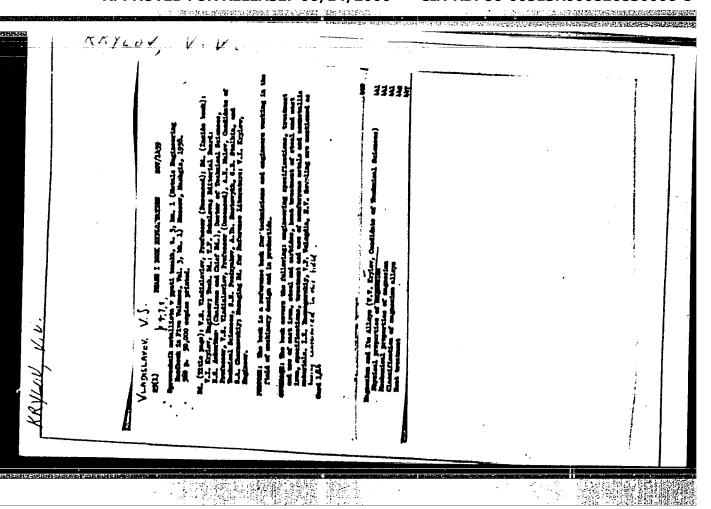
Diagnosis and surgical treatment of renovascular hypertension.

Khirurgiia 40 no.11:3-9 N *65. (MIRA 18:7)

I. Nauchno-issledovatel'skiy institut klinicheskoy i eksperimental'noy khirurgii Ministerstva zdravookhraneniya RSFSR i gospital'naya khirurgi-cheskaya klinika (dir. - prof. B.V.Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

Mayigators' calculations can be automated still more. Vest.
Vozd. Fl. no.5:82-83 My '61. (MIRA 14:8)

(Navigation (Aeronautics))



"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8

	Deformation versor. Frudy TAT 45.85-02 160		
	Deformation versor. Trudy KAI 45 (Vector analysis)	(Electricity)	(MIRA 14:1)
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BELOVA, M.B.; VASIL'YEV, V.G.; VLASOV, C.M.; GRYAZKOV, L.P.; DRABKIN,
I.Te.; ZHEGALOV, Yu.V.; KARBIVNICHIY, I.N.; KLENOV, Ye.P.; KRYLOV. V.V.; TITOV, V.A.; ZARETSKAYA, A.I., vedushchiy red.; FEDOTOVA, I.G., tekhm. red.

[Geology and oil and gas potentials of Kamchatka] Geologicheskoe
stroenie i perspektivy neftegazonosnozti Kamchatki. Moskva, Gos.
nauchno-tekhm. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 343 p.

(Kamchatka-Petroleum geology)
(Kamchatka-Gas, Natual--Geology)

(Kamchatka-Gas, Natual--Geology)

507/98-58-11-9/15

THE REPORT OF THE PROPERTY OF

AUTHORS:

Sobolev, S.V. and Krylov, V.V., Engineers

TITLE:

The Construction of a Prefabricated Reinforced-Concrete Spillway Dam (Sbornaya konstruktsiyazhelezobetonnoy vodoslivnoy plotiny). For Discussion Purposes (V poryad-

ke obsuzhdeniya)

PERIODICAL:

Gidrotekhnicheskom stroitel'stvo, 1958, Nr 11, pp 48-50

(USSR)

ABSTRACT:

The use of prefabricated reinforced-concrete parts in the construction of hydroelectric power plants may considerably shorten the construction period. The authors developed the plan of construction of a spillway dam from such blocks of a simple but universal shape suited for all fundamental structures of a hydraulic system. According to the authors such construction will need less concrete, speed-

Card 1/2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826830006-8"

The Construction of a Prefabricated Reinforced-Concrete Spillway Dam

The Construction of a Prefabricated Reinforced-Concrete Spillway Dam

up, and simplify the building process, which will consist mainly of mechanized assembly of the structure. A detailed description of the proposed method is given. There are 3 diagrams and 1 table.

1. Dams--Construction 2. Reinforced concrete--Applications

Card 2/2

KKYLOV, V. V. Cand Tech Sci — (diss) "Certain Questions on the Theory of Dynamic Action of a Stream on Water-Fault Installations,"

Moscow, 1960, 28 pp, 180 copies (All-Union Sci-Res Institute of Water Supply, Sewerage, Hydrotechnical Structures and Freineering Hydrogeology, "VODCYeO", Academy of Construction and Architecture USSR) (KL, 46/60, 125)

KHYLOV, V.V., inzh.

Designing the profile of an arched dam overflow, Isv.vyq. ucheb.sav.; energ. 3 no.1:129-135 Ja '60. (MIRA 13:1)

1. Vsesoyusnyy saochnyy energeticheskiy institut. Predstavlena kafedroy gidroenergetiki i gidravliki. (Spillways)

KRYLOV, V.

Engineering and technical societies in the struggle for speeding up technical progress. Rech. transp. 19 no. 2:46 F '60.

(MIRA 14:5)

1. Chlen prezidiuma Permskogo oblastnogo soveta nauchno-tekhnicheskikh obshchestv.

(Inland water transportation—Technological innovations)

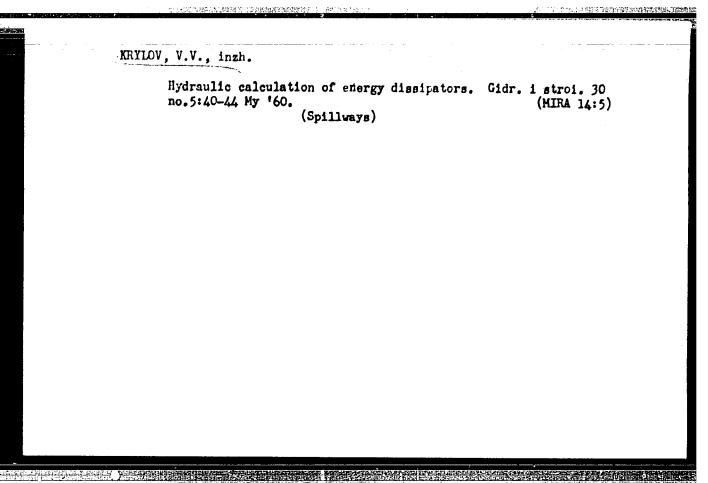
KRYLOV, V., inzh.; SOBOLEV, S., inzh.

Industrially sectional construction of navigational sluiceways.

Rech.transp. 19 no.5:36-38 My 160. (MIRA 13:7)

(Hydraulic engineering--Equipment and supplies)

(Precast concrete construction)



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

KKYLOV, V.V. inzh.

Hydraulic calculation of a spillway aprop. Tzv. vys. ucheb. zav.; energ. 4 no. 1:95-100 Ja 161. (MIDA 14:2)

1. Vsesoyuznyy zaochnyy pnergotichoskiy imptitut. Predstavlena kafedroy gidroenergotiki.

(Spillwaye)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8

Simplified cotton-carding machine VChU-1., Tekst. prom., 12, No. 3., 1952.

9. Monthly List of Russian Accessions, Library of Congress, April _195%, Uncl.

KRYLOV, V.V.

Distribution of strains and hidden elongation in roves. Tekst.pros.
14 no.7:27-30 J1 '54, (MIRA 7:8)
(Cotton spinning)

KRYLOV, V. V.:

KRYLOV, V. V.: "The effect on the process of stretching and on the uniformity of coarse linen of the stretching instrument and the twisting-winding mechanism of lines machines."

Min Higher Education LSSR. Moscow Textile Inst. Moscow, 1956. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCE).

So.: Knizhmaya Letopis', Moscow No. 15, 1956

KRYLOV, V.V., inzhener. PHENDERS SHIP New ChVP-600 cetten weel carding machine. Tekst.prem. 16 ne.1:19-21 Ja 156. (MIRA 9:4)

(Carding machines)

Strains and unevenness of sliver in drawing the roving. Tekst.

prom. 17 no.6: 30-32 Je '57. (MLRA 10:7)

(Spinning) (Yarn--Testing)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

ALEKSANDROV, F.T., starshiy nauchnyy sotrudnik; KRYLOV, V.V., kand.tekhn.nauk

Cap-type carding machine with a production capacity of 15 kg. per hour. Tekst. prom. 18 no.6:17-19 Je '58. (MIRA 11:7) (Carding machines)

no.10:77-80 0'60.

(MIRA 13:11)

KRYLOV, V.V., kand.tekhn.nauk; KOROL'KOV, N.V.

Trends in the improvement of carding machines. Tekst.prom. 20

(Carding machines)

· (1981年)。1981年1月1日 - 1987年1月1日 - 1987年1月1日 - 1987年1日 -

KRYLOV, V.V.

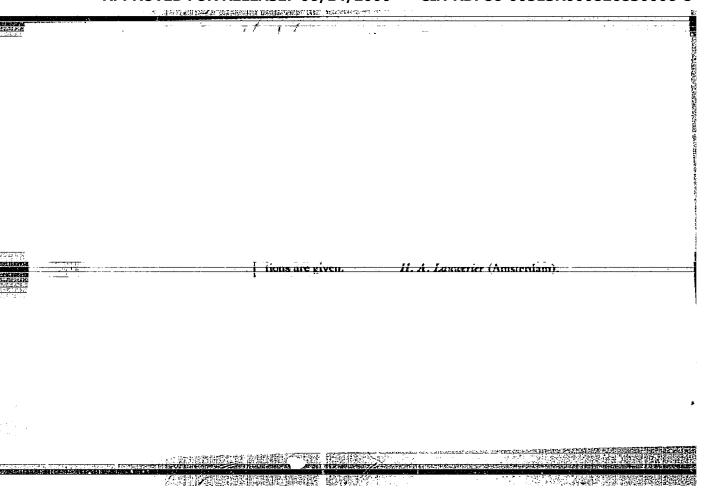
Some theoretical and experimental data on the development of high-speed carding machines for cotton. Izv. vys. uchab. zav.; takh. tekst. prom. no.3:49-57 162.

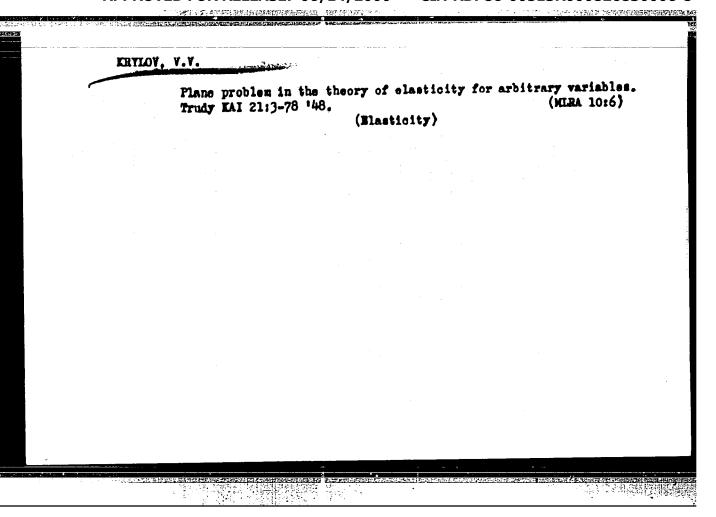
1. Vsesoyuznyy nauchno-isoledovateliskiy institut tokstilinoy

i legkoy promyshlennosti.

CIA-RDP86-00513R000826830006-8" APPROVED FOR RELEASE: 06/14/2000

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124-1957-10-11859

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 95 (USSR)

AUTHOR:

Krylov, V. V.

TITLE:

Some Problems in the General Investigation of the Equilibrium of an Elastic Body (Nekotoryye voprosy obshchego issledovaniya

ravnovesiya uprogogo tela)

Tr. Kazansk. aviats, in-ta, 1956, Vol 31, pp 447-615 PERIODICAL:

ABSTRACT:

The Author's objective is a general investigation of the stressed and deformed state of an isotropic elastic body and to establish the equations of a theory of elasticity without recourse to any assumptions relative to the smallness of the displacements or their derivatives. The work contains seven chapters: 1) the deformation of a solid medium; 2) analysis of the stressed state; 3) basic relationships between stress and deformation tensors: 4) integration of equations of equilibrium; 5) pure deformation at a point; 6) the plane problem; 7) to the torsion of a round shaft. The basic outline of the establishment of a non-linear elastic theory, as proposed in the paper, narrows down to the following terms: a) a symmetrical deformation tensor must be

Card 1/2

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124-1957-10-11859

Some Problems in the General Investigation of the Equilibrium (cont.)

determined by nine components: "The additive combination of the turning angles of two linear elements (shear) is not necessary", and "The work owes its development to the view that the enlistment of each component (out of which the expression for the shear is set up) as an independent component of the deformation tensor simplifies the investigation"; b) the experimental relationship between stresses and deformations is taken in the form of Hooke's law, that is, as a linear relationship between the relative elongations along the principal directions and the principal normal stresses; c) in all examinations, the deformation versor is applied as an independent tensor. To find it, supplementary equations are required, and "it appears plausible that the basic equations of the theory of elasticity usually employed are not sufficient for the exact determination of the stress-strain state of an elastic body, " However, "the determination of the deformation versor is left open in the paper."

A. L. Lur'ye

Card 2/2

Specialties of the Construction of Jet Aircraft, 1948.

124-1957-2-1622

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 27 (USSR)

AUTHOR: Krylov, V. Ya.

TITLE: The Lateral Stability of a Sweptback Wing (Poperechnaya ustoychivost' strelovidnogo kryla)

PERIODICAL: Tr. Leningr. in-ta aviats. priborostroyeniya, 1953, Nr 4, pp. 17-25

ABSTRACT: The paper affords a quantitative evaluation of the lateral stability of a sweptback wing without any reduction in area in comparison with a straight wing. To provide references for the evaluation, the Author introduces the difference between the tangents of the angles of a tack of the right and left semi-wings due to the sideslip angle of the craft and the given fore-and-aft sweep angle of and the transverse dihedral angle of the abovementioned difference is determined from purely geometrical considerations. The aerodynamic effects resulting from the sideslip are not considered in this paper (such as the spanwise redistribution of the circulation), because the Author believes that these effects in the first approximation are the same on both the sweptback and the non-swept wings and, therefore, can be disregarded in the comparative evaluation.

124-1957-2-1622

The Lateral Stability of a Sweptback Wing

The relationships obtained indicate that the lateral stability of the wing increases with an increase in the angle χ (sweepback). Therefore, in order to maintain a degree of lateral stability equal to that of the straight wing, it will be necessary to decrease the angle β (dihedral). Upon arriving at the final formulas, the A. makes a wholly superfluous assumption regarding the equality of the angles ϕ and β , which, in physical reality, are independent quantities. Also, on evaluating the term with χ , the Author, considering the angle β to be variable, assumes the angle ϕ to be constant, which contradicts the preceding assumption. As a result thereof the fundamental nomogram (Fig. 7 in the article) is derived from two mutually exclusive assumptions, which leads to numerical errors and makes the graph unsuitable for practical use. The elimination from the design formulas of the assumption $\phi = \beta$ is a fundamental necessity to maintain the validity of the qualitative conclusions derived by the Author.

B.V. Raushenbakh

1. Swept-back wings--Stability (Lateral)

Card 2/2

Name

: KRYLOV, V. Ya.

Remarks

: Engineer G. Molyukov writes in a review of a manual on aircraft construction that O. M. Rozanov, A. S. Bedunkevich, V. Ya. Krylov, Ya. G. Panovko and G. G. Rostovtsev are the authors of a book entitled "Special Features of Jet Aircraft Construction".

Source

: P: Vestnik Vozdushnogo Flota, No. 3, March 1954, pp. 80-82

KHYLOV, V.Ya., kandidat tekhnicheskikh nauk; HEL'NIKOV, A.P., doktor tekhnicheskikh nauk, redaktor.

[Development of helicopter construction in the U.S.S.R.]

Rasvitie vertoletostroeniia v SSSR. Leningrad, Vses. ob-vo
po rasprostraneniiu polit. i nauchn.snanii, Leningradskoe
otd-nie 1955. 42 p. [Microfilm] (MLRA 9:1)
(Helicopters)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826830006-8

KRYLOV, V 4a 100-7-13/13

AUTHOR:

TITLE: PERIODICAL: Not given

New Books, (Novyye knigi, Russian)

Radiotekhnika, 1957, Vol 12, Nr 7, pp 81-61 (U.S.S.R.)

ABSTRACT:

V.A.KOTEL'NIKOV: "Theory of the Potential Noise Stability", published by Gosenergoizdat, 1956, 151 pages, price 6.15 roubles. This is a monograph and the material contained can be used for the analysis of modulation-radio reception methods.

New methods worked out in the field of radio communication and broadcasting. Informative reference work "Technology of Telecommunication", published by Svyaz'izdat. 1957. 71 pages. price 2.20 roubles (Ministry for Post Office and Telecommunication in the U.S.S.R., technical administration). Description of the latest developments, as e.g. highfrequency apparatus for radio relay lines of the "Strela" type, the termistor measuring instrument of highfrequency power, the device for measuring the relative level of transition- and fluctuation noise in multichannel radio relay lines, the impulse-oscillograph IO-52, the latest miorophone types, the multifrequency generator for sound telegraphy, the strong radiation tetrode, the apparatus with orystal triodes for determining defective parts in subterranean lines with non-metallic casing.

Card 1/2

108-7-13/13

New Books.

V.YA.KRYLOV: "Artificial Earth Satellite", published by "Sovets-Koye radio", 1957, 76 pages, price 2.25 roubles. A monograph. A.K.VARDENBURG: "Plastic Masses in Electrotechnical Industry", second edition, revised and completed. Published by Gosenergoizdat, 1957, 231 pages, price 8.- roubles.

V.L.TYURIN, V.N.LISTOV, A.V.VYSOTSKIY: "Telecommunication", second edition, revised and completed. Published by "Transzheldorizdat", 1957, 411 pages, price 13,20 roubles. Theoretical bases. Textbook for Railway Schools.

ASSOCIATION:

Not given

PRESENTED BY: SUBMITTED:

AVAILABLE:

Library of Congress

Card 2/2

KRYLOV, V.Y.

SUBJECT

CARD 1/2 PG - 352 USSR/MATHEMATICS/Theory of approximations

AUTHOR

KRYLOV W.J.

TITLE

The convergence of the algebraic interpolation in terms of the roots of a Cebysev polynomial for absolutely continuous functions

and for functions of bounded variation.

PERIODICAL

Doklady Akad. Nauk 107, 362-365 (1956)

reviewed 10/1956

Let f(x) be defined on [-1,+1]. Let the interpolation knots be the roots $x_k^{(n)} = \cos \frac{2k-1}{2n} \pi$ (k=1,2,...,n) of the polynomial $T_n(x) = \cos (n \operatorname{arc} \cos x)$. The Lagrange polynomial which interpolates f(x) with respect to its values in x_k(n) be

 $L_n(x) = \sum_{k=1}^n 1_{n,k}(x)f(x_k^{(n)}), \quad 1_{n,k}(x) = T_n(x) : (x-x_k^{(n)})T_n^*(x_k^{(n)}).$

Theorem 1: If f(x) is absolutely continuous on $\begin{bmatrix} -1,+1 \end{bmatrix}$, then on $\begin{bmatrix} -1,+1 \end{bmatrix}$, $L_n(x)$ converges to f(x) uniformly with respect to x if $n \longrightarrow \infty$.

For the proof the author uses the fact that for the uniform convergence on [-1,+1] for absolutely continuous functions it is necessary and sufficient that the absolute values of the partial sums $\sum_{k=1}^{n} 1_{n,k}(x)$ possess an upper k-j

bound A. The existence of A is given by the consideration of an integral

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Doklady Akad. Nauk 107, 362-365 (1956)

CARD 2/2

PG - 352

representation, namely

$$\sum_{k=j}^{n} 1_{n,k}(x) = (2\pi i)^{-1} \int_{I_{j}} \left[1 - \frac{T_{n}(x)}{T_{n}(z)} \right] \frac{dz}{z-x} ,$$

where Γ_j is a closed curve, where the knots $x_k^{(n)}$ $(k=1,\ldots,j-1)$ lie outside of Γ_j and the knots $x_k^{(n)}$ $(k=j,j+1,\ldots n)$ lie inside of Γ_j . Theorem 2: If f(x) is of bounded variation on [-1,+1], then $L_n(x)$ converges to f(x) as $n\longrightarrow\infty$ in all points of continuity of f(x).

INSTITUTION: Zdanow University, Leningrad.

S/020/60/132/06/08/068 C111/C222

16.41600

AUTHOR: Krylov, V.Yu.

TITLE: Some Properties of the Distribution Corresponding to the Equation

$$\frac{\partial u}{\partial t} = (-1)^{q+1} \frac{\partial^{2q} u}{\partial x^{2q}}$$

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6, pp. 1254-1257

TEXT: I.M. Gel'fand (Ref. 3) incited to investigate the distributions connected with several differential equations and being analogous to the measure of Wiener. In the present paper the author considers the distribution in the space C[0,T] of functions x(t) continuous on [0,T] which corresponds to the equation

(1)
$$\frac{\partial u}{\partial t} = (-1)^{q+1} \frac{\partial^{2q} u}{\partial x^{2q}}$$

As it is usual the distribution is defined on cylindrical subsets of the C [0,T]. It is proved that for bounded smooth functions V(x) there exists the mean with respect to the distribution of the functional Card 1/3

Some Properties of the Distribution Corresponding $\frac{3}{2q_u}$ S/020/60/132/06/08/068 to the Equation $\frac{\partial u}{\partial t} = (-1)^{q+1} \frac{2^{2q_u}}{2r^{2q}}$

 $\exp \left\{-\int_{0}^{T} V\left[x(t)\right] dt\right\}$ and that it is a solution of

(2)
$$\frac{\partial u}{\partial t} = (-1)^{q+1} \frac{\partial^{2q} u}{\partial x^{2q}} - V(x)u$$

Therewith also the existence of the distribution or the generalized measure P_{2q} is proved in the whole C[0,T]. It is shown that the complete variation of P_{2q} , q>1 is infinite on C[0,T]. The measure P_{2q} is concentrated on a compact set in as much as its variation outside of this compact can be made arbitrarily small. A well-known result of Wiener is generalized: Theorem 4: The complete measure $F(t_1)$ of the set of those trajectories $x(t) \in C[0,T]$ which are positive on [0,T] at least during the time t_1 is given by Card 2/3

Some Properties of the Distribution Corresponding S/020/60/132/06/08/068 to the Equation $\frac{\partial u}{\partial t} = (-1)^{q+1} \frac{\partial^2 q}{\partial x^2 q}$ C111/C222

(6)
$$F(t_1) = \frac{2}{\pi} \operatorname{*arc sin} \sqrt{\frac{t_1}{T}}$$

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for every $q \geqslant 1$. The author mentions L.V. Kobelev; he thanks his scientific leader I.M. Gel'fand, Corresponding Member of the AS USSR, and I.I. Pyatelskiy-Shapiro There are 5 references : 2 Soviet, 2 English and 1 American. PRESENTED: February 27, 1960, by A.N. Kolmogorov, Academician

SUBMITTED: February 25, 1960

Card 3/3

KRYLOV, V. Yu.

Cand Phys-Math Sci - (diss) "Non-positive distributions and equations with partial derivatives." Moscow, 1961. 5 pp; (Academy of Sciences USSR, Mathematics Inst imeni V. A. Steklov); 150 copies; price not given; bibliography on p 5 (19 entries); (KL, 7-61 sup, 219)

25h70 8/020/61/139/001/002/018 C111/C222

AUTHOR:

Krylov, V.Yu.

TITLE:

A limit theorem

PERIODICAL: Akademiya nauk SSSR. Doklady, v.139, no.1, 1961, 20-23

TEXT: The following theorems are proved:

Theorem 1: Let ξ_1 , $\bar{\xi}_2$,..., ξ_k ,... be a sequence of mutually independent

random variables given by the generally not positive probability densities $p_k(x)$ (k=1,2,...) satisfying the following conditions:

1) For every k (k=1,2,...) it holds

$$\int p_{k}(x)dx = 1, \quad \int xp_{k}(x)dx = 0, \dots \quad \int x^{2q-1}p_{k}(x)dx = 0,$$

$$\int x^{2q}pk(x)dx = (-1)^{q+1}b_{k}^{2q}.$$

2) There exists a constant C so that for every n it holds:

$$\sum_{k=1}^{n} \int x^{2q} |p_k(x)| dx = c \sum_{k=1}^{n} \int x^{2q} p_k(x) dx |.$$

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A limit theorem

3) For every $\lambda > 0$ it holds

$$\lim_{n\to\infty} \frac{1}{B_n^{2q}} \sum_{k=1}^n \int_{|x|>\lambda B_n} x^{2q} p_k(x) dx = 0,$$

where
$$B_n^{2q} = \sum_{k=1}^n b_n^{2q}$$
,

4) It holds

$$\lim_{\varepsilon \to 0} \max_{1 \le k \le n} \frac{1}{B_n^{2q}} \int_{|x| \le \varepsilon B_n} x^{2q} |p_k(x)| dx = 0.$$

If then $P_n(x)$ is the probability density of the normalized sum

$$\sum_{n=1}^{\infty} \sum_{k=1}^{n} \xi_{k} \text{ then it exists}$$

$$P(x) = \lim_{n \to \infty} P_{n}(x) = \frac{1}{2\pi} \int e^{-t^{2q}/(2q)! + itx} dt.$$

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A limit theorem

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The limit value is understood in the sense of the weak convergence over the space 2.

On Z of. (Ref.4: I.M.Gel'fand, G.Ye.Shilov, Prostranstva obobshchennykh funktsiy [Spaces of generalized functions], N., 1958). Theorem 2: Let $p_k(x)$ (k=1,2,...) satisfy the conditions 1)-4) of theorem

1 and besides the condition

5) $|f_{nk}(t)| \le (1 + \frac{A}{n})(\frac{n}{n+t})^{\infty}$ (k=1,...,n) for all k,t (-\omega < t < \omega) and every $\alpha > 0$.

Then $P_n(x) \rightarrow P(x)$ (n->00) in the mean.

Here $f_{nk}(t)$ denotes the characteristic function of $\xi_{nk} = \frac{1}{B_n} \xi_k$ ($1 \le k \le n$; $n=1,2,\ldots$).

The author thanks I.M.Gel'fand and M.A.Yevgrafov for attention to the paper. There are 6 Soviet-bloc references.

PRESENTED: December 29, 1960, by M.V.Keldysh. Academician

SUBMITTED: December 27, 1960

Card 3/3

GODUNOV, Sergey Konstantinovich; RYABEN'KIY, Viktor Solomonovich.
Prinimali uchastiye: BAKHVALOV, N.S.; KRYLOV, V.Yu.;
BIRYUK, G.I., red.; PLAKSH, L.Yu., tekhn. red.

[Introduction to the theory of different systems] Vvedenie v teoriiu raznostnykh skhem. Moskva, Fizmatgiz, 1962. 340 p.
(MIRA 16:1)
(Difference equations) (Operators (Mathematics))

S/020/63/149/002/007/028 B112/B180

AUTHORS:

Tsetlin, M. L., Krylov, V. Yu.

TITLE:

Examples of games played by robots

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 284-287

TEXT: The behavior of players in a game is considered, the conditions of which are not known to the players. It is assumed that the game is repeated a certain number of times. Simplest examples for playing a zero-sum game with linear strategy are considered. For this case, the mathematical expectation value is calculated and shown to be similar to that of the von Neumann game.

PRESENTED: October 16, 1962, by M. V. Kel'dysh, Academician

SUBMITTED: October 4, 1962

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L 18406-63

EWI(d)/FCC(w)/BDS AFFTC/ASD/ESD=3/RADC/IJP(C)

ACCESSION NR: AP3003744

8/0103/63/024/007/0975/0987

AUTHOR: Kry*lov, V. Yu. (Moscow); Tsetlin, M. L. (Moscow)

TITLE: Automata games

SOURCE: Avtomatika i telemekhanika, v. 24, no. 7, 1963, 975-987

TOPIC TAGS: game, automaton

ABSTRACT: Two finite automata without a priori information about the game are selecting their strategies in the course of playing the game. Hands (games) are repeated many times, and each of them means a unit loss or gain for a given automaton. Thus, the strategy of each automaton is based only on his last score. Such a type of game is described by the Markov's finite chain; final probabilities of winning are determined for the ergodic-game class. Further, a two-automata zero-sum game is defined. The automaton plays with an adversary who has selected a mixed strategy. A linear-tactics automaton can maximize its chances

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ACCESSION NR: AP3003744

to win; if his opponent uses the optimum strategy, it can still get the Neumann's pure value. It is assumed that both automata have expedient behavior. Finally, a zero-sum game is considered between two automata having an asymptotically optimum behavior in steady-state random media. Some experimentation with a computer in connection with the latter type of game is mentioned. Orig. art. has: 3 figures, 49 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 04Nov62

DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: IE

NO REF SOV: 006

OTHER: 004

Card 2/2

KRYLOV, V.Yu. (Moskva)

An automation, asymptotically optimum in a random medium.

Avtom. i telem. 24 no.9:1226-1228 S *63. (MIRA 16:9)

(Automation) (Automatic control)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830006-8"

TSETLIN, M.L.; KRYLOV, V.Yu.

Kramples of games played by automats. Dokl. AN SSSR 149 no.21
284-287 Mr '63.

1. Predstavleno akademikom M.V.Keldyshem.
(Games of strategy (Mathematics))